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**SYSTEM AND METHOD FOR AUTOMATICALLY AND  
DYNAMICALLY OPTIMIZING APPLICATION DATA  
RESOURCES TO MEET BUSINESS OBJECTIVES**

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**ABSTRACT OF THE INVENTION**

10        A system and method to automatically and dynamically optimize available  
resources to meet application data availability and business objectives. In one  
embodiment, a backup and data recovery system continually and dynamically  
adjust to the backup and recovery or restore process depending on the  
customer's environment, workload, and business objectives. Acceptable  
15        tolerance of downtime due to recovery and backup impacts the customer's  
business or system operation. From this high-level business requirement, the  
present system determines the backup and recovery plan details. The present  
system accepts application data availability policies based on business  
objectives, and devises, executes and refines a resource optimal backup and  
20        recovery strategy required to deliver the desired quality of service in the  
environments that have dynamically changing application workloads, business  
objectives, and hardware/software infrastructure technologies. In addition, the  
present system performs backups outside blocked windows to minimize the  
impact on the customer's system.

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